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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,078	03/18/2004	Kia Silverbrook	FPD006US	5186
24011 7590 11/18/2008 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA				
EXAMINER				
LIANG, LEONARD S				
ART UNIT		PAPER NUMBER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/803,078

Applicant(s)

SILVERBROOK, KIA

Examiner

LEONARD S. LIANG

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 August 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 and 28-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-26 and 28-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-26 and 28-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The amended claim 1 states, "the flat panel display unit has a stand for holding the flat panel display unit in an operative position on a surface, the stand including a base portion for placement on the surface and an arm portion connecting the base portion to the flat panel display unit, the base portion having at least one receptacle configured to accept at least one replaceable ink cartridge for supplying ink to the printer."

There does not appear to be any support in the specification for the base portion having at least one receptacle configured to accept at least one replaceable ink cartridge. Rather, it appears that it is the flat panel display unit that could be construed to have the receptacle (see figures 10 and 14, references 151-152; figure 14, reference 189; please note that base portion 144 is not near the receptacle).

Therefore, it will be construed that the claim should state, "the flat panel display unit has a stand for holding the flat panel display unit in an operative position on a surface, the stand including a base portion for placement on the surface and an arm portion connecting the base portion to the flat panel display unit, the flat panel display

unit having at least one receptacle configured to accept at least one replaceable ink cartridge for supplying ink to the printer."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5, 8, 10-14, 16-20, and 23-26, and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwa et al (JP Pat 08267854) in view of Morgavi (US Pat 5558449) and Saito et al (US Pat 5731829).

Kashiwa et al discloses:

- {claim 1} A printing and display device (figure 1); a flat panel display unit for displaying images within an image viewing area of the flat panel display unit, the flat panel display unit being arranged to receive the images from an external computer device connected to an image input of the flat panel display unit figure (figure 1, reference 2; even though this is a laptop computer, there is inherently a CPU which can be considered to be external to the image input of the printing and display device. Furthermore, it is well known to one of ordinary skill in the art that an external computer device, like a keyboard or mouse, can always be

connected to a portable computer); a printer (figure 2, reference 14; abstract)

- {claim 3} the device configured to receive print data to be printed, and display data to be displayed, from a computer system, the printer and flat panel display being operationally integrated such that the printer is operable to print based on the received print data and/or display data (abstract)
- {claim 4} wherein the printing and display device includes a connection configured to allow releasable operative connection of the computer system to the printing and display device, for receiving the print data and the display data from the computer system (abstract; as broadly recited, connections are releasable)
- {claim 5} wherein the connection includes at least one socket for accepting at least one corresponding data cable (figure 5; see socket receiving data cable)
- {claim 8} further including a paper feed mechanism for feeding paper to the printhead for printing, the printhead being arranged to print onto the paper (figure 2, reference 15)
- {claim 10} wherein the paper feed mechanism is configured to accept a single sheet of paper at a time for printing (figure 2, reference 15)

- {claim 11} wherein the paper feed mechanism includes a paper separator for feeding a single sheet of paper to the printhead from a stack of sheets of paper (figure 4, reference 22)
- {claim 17} device configured to enable printing of standard A4 or Letter sized sheets of paper (figure 2, reference 10)
- {claim 18} device configured such that paper to be printed is fed manually into a paper path that directs the paper from a region adjacent the upper edge of the flat panel display, past the printhead for printing, then out of the device adjacent a lower edge of the flat panel display (figure 2, reference 10)
- {claim 19} further including a curved paper guide disposed, when the device is in use, beneath the flat panel display, such that the paper that has been printed is urged horizontally as it exits the device (figure 2, reference 17)
- {claim 20} wherein the flat panel display is of the following type: LCD (abstract)
- {claim 23} wherein the printhead is configured to print photographic images (abstract; the term photographic is broadly interpreted; it is well known that any printer that prints images can print photographic images depending on the data input to the printer)
- {claim 24} wherein the printhead is configured to print image and text data (abstract; depending on the data sent to the printer)

- {claim 25} wherein the computer system is a personal computer (abstract)
- {claim 26} a flat panel display for displaying images from a computer; and a printer, the printer including a printhead for printing onto the paper (figure 2)
- {claim 28} a data connection for receiving print data from a computer; a flat panel display for displaying images received from a computer; a printer, the printer including a printhead for printing onto paper on the basis of the print data; and a data connection hub configured to allow connection of at least one data-receiving device to the printing and display device, enabling the data-receiving device to receive data from the computer (abstract; figure 2)
- {claim 29} a flat panel display; and a printer, including a printhead for printing onto paper; the device being configured such that, during printing, the paper being printed passes between the flat panel display and the printhead, or passes behind the flat panel display and the printhead relative to a viewing position of the flat panel display (figure 2)
- {claim 30} a flat panel display; a printer, including a printhead for printing onto paper; a multi-sheet paper holder; a paper sheet separator configured to separate a single paper sheet from the paper in the paper holder for supply to the printhead (abstract; figure 2; paragraph 0012; paper tray)

- {claim 31} the device including an interface, and being configured to receive, via the interface, input from a use indicative of a print command; send, from the printing and display device to the computer system, a print request; receive, from the computer system and in response to the print request, a document to be printed; and print the document (abstract)

Kashiwa et al differs from the claimed invention in that it does not explicitly disclose:

- {claim 1} the printer including at least two printheads, the printheads being disposed on either side of a path through which print media is fed for printing, thereby enabling substantially simultaneous printing of both sides of the print media; wherein the printer is arranged within the flat panel display unit so as to be contained within the image viewing area of the flat panel display unit, and the flat panel display unit has a stand for holding the flat panel display unit in an operative position on a surface, the stand including a base portion for placement on the surface and an arm portion connecting the base portion to the flat panel display unit, the base portion having at least one receptacle configured to accept at least one replaceable ink cartridge for supplying ink to the printer
- {claim 2} wherein the viewable area has a dimension measured along a diagonal of the printing and display device which exceeds 40cm
- {claim 12} wherein the printer is a process color printer
- {claim 13} wherein the printer is an inkjet printer

- {claim 14} wherein the printer has more than 5,000 inkjet nozzles
- {claim 16} wherein the flat panel display measures at least 14 inches on the diagonal

With respect to claims 2, 12-14, and 16, even though the art is explicitly silent with regard to the specifics of the printhead and dimensions of the display, one of ordinary skill in the art would recognize the above limitations to be standards that are commonly used in the industry. If the above limitations were not implied in the invention of Kashiwa et al, the disclosed printing and display functions would be severely hampered.

Morgavi discloses, with respect to claim 1, a simultaneous two-face printing machine comprising two printheads disposed on either side of a path through which print media is fed for printing, thereby enabling substantially simultaneous printing on both sides of the print media (figure 1, reference 10, 11).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Morgavi into the invention of Kashiwa et al. The motivation for the skilled artisan in doing so is to gain the benefit of printing on two sides of a media.

Saito et al discloses, with respect to claim 1, that the printer is arranged within the flat panel display unit so as to be contained within the image viewing area of the flat panel display unit (figure 66A-B, reference 3200, 3213, 3213f); the flat panel display unit has a stand (figure 66A-B, reference 3214) for holding the flat panel display unit (figure 66A-B, reference 3213, 3213f) in an operative position (figure 66A-B, reference 3214,

3213, 3213f) on a surface (not shown in figures, but inherent in order to support apparatus), the stand including a base portion for placement on the surface (figure 66A-B; bottom flat portion of reference 3201) and an arm portion connecting the base portion to the flat panel display unit (figure 66A-B; the unlabeled raised portion of reference 3201 can be considered arm portion; it connects the bottom base portion to the flat panel display unit through the stand 3214), the flat panel display unit having at least one receptacle configured to accept at least one replaceable ink cartridge for supplying ink to the printer (figure 1, reference 3202-3203).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Saito et al into the invention of Kashiwa et al so that the printer is arranged within the flat panel display unit. The motivation for the skilled artisan in doing so is to gain the benefit of saving space.

Claims 6-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwa et al (JP Pat 08267854) in view of Morgavi (US Pat 5558449) and Saito et al (US Pat 5731829), as applied to claim 1-5, 8, 10-14, 16-20, and 23-31 above, and further in view of Minemoto et al (US Pat 6188569).

Kashiwa et al, as modified, discloses:

- {claim 9} wherein the paper feed mechanism is configured to position the paper substantially parallel in at least one direction with respect to a plane defined by the flat panel display (figure 2, reference 15)

Kashiwa et al, as modified, differs from the claimed invention in that it does not disclose:

- {claim 6} wherein the connection includes a wireless receiver for receiving the print data and/or the display data
- {claim 7} wherein the connection is a Universal Synchronous Bus (USB) connection

Minemoto et al discloses:

- {claim 6} wherein the connection includes a wireless receiver for receiving the print data and/or the display data (column 5, lines 10-31)
- {claim 7} wherein the connection is a Universal Synchronous Bus (USB) connection (column 9, lines 44-52)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Minemoto et al into the invention of modified Kashiwa et al. The motivation for the skilled artisan in doing so is to gain the benefit of providing efficient data transfer.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwa et al (JP Pat 08267854) in view of Morgavi (US Pat 5558449) and Saito et al (US Pat 5731829), as applied to claim 1-5, 8, 10-14, 16-20, and 23-31 above, and further in view Steinfield et al (US Pat 6508552).

Kashiwa et al, as modified, teaches all limitations of the claimed invention except for the following:

- {claim 15} wherein the printer is a page-width printer

Steinfeld et al discloses, with respect to claim 15, the equivalence between a carriage mounted printhead and a pagewidth print head (column 1, lines 56-67).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Steinfeld et al into the invention of Kashiwa et al. The motivation for the skilled artisan in doing so is to gain the benefit of reducing vibration in the printhead.

Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kashiwa et al (JP Pat 08267854) in view of Morgavi (US Pat 5558449) and Saito et al (US Pat 5731829), as applied to claim 1-5, 8, 10-14, 16-20, and 23-31 above, and further in view Rylander (US Pat 5602572).

Kashiwa et al, as modified, teaches all limitations of the claimed invention except for the following:

- {claim 21} wherein the printhead is configured to receive halftoned print data to be printed onto the print media
- {claim 22} further including a halftoning unit for generating halftoned image data and supplying it to the printhead for printing

Rylander discloses:

- {claim 21} wherein the printhead is configured to receive halftoned print data to be printed onto the print media (abstract)

- {claim 22} further including a halftoning unit for generating halftoned image data and supplying it to the printhead for printing (abstract)

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teachings of Rylander into the invention of modified Kashiwa et al. The motivation for the skilled artisan in doing so is to gain the benefit of producing images that represent a greater range of shades.

Response to Arguments

Applicant's arguments filed 08/20/08 have been fully considered but they are not persuasive.

The applicant argues that, "one of ordinary skill in the art clearly understands that the elements 3214 and 3213f of Saito do not constitute a stand having a base portion having the receptacle for placement on a surface and an arm portion connecting the base portion to the flat panel display unit, recited in the claimed invention."

The examiner respectfully disagrees. The claims are given their broadest reasonable interpretation and the examiner believes that it is reasonable to interpret elements 3214 and 3213 (or 3213f) to be a stand and flat panel display unit respectively. This is because references 3213 and 3213f represent a flat panel display and reference 3214 presents a mechanism to allow the flat panel display unit to be supported and stood upright. Without reference 3214, the flat panel display unit could not be held upright. Therefore, reference 3214 can be considered a stand because it performs the function of a stand.

The examiner believes that the applicant is applying an overly narrow interpretation of the claims. As shown in the above rejection, the claims are anticipated by the prior art.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Evanicky et al (US Pat 6061104) discloses a flat panel display and stand with vertical adjustment and tilt adjustment.

Sawyer (US Pat 6418010) discloses a convertible flat panel display hanging support.

Huang (US Pat 6478275) discloses a support device for monitor, displayer or other object.

Li (US PgPub 20030075653) discloses a liquid crystal display support.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEONARD S. LIANG whose telephone number is (571)272-2148. The examiner can normally be reached on 8:30-5 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. S. L./
Examiner, Art Unit 2853
11/13/08

/Stephen D Meier/

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Supervisory Patent Examiner, Art Unit 2853